

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	09/785944
Confirmation Number	7227
Filing Date	February 16, 2001
First Named Inventor	Fermann, Martin E
Art Unit	2828
Examiner Name	Hrayr Sayadian
Attorney Docket Number	IMRAA.015C1-72C

## **U.S. PATENTS**

Examiner Initials*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

## **NON-PATENT DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	T <sup>5</sup>
	1	Defendant IPG Photonics Corporation's Motion to Stay the Litigation Pending Reexamination	12/21/2007
	2	Exhibit 1 to Defendant IPG Photonics Corporation's Motion to Stay the Litigation Pending Reexamination - Defendant IPG Photonics Corporation's First Set of Interrogatories (Nos. 1-13)	12/21/2007
	3	Exhibit 2 to Defendant IPG Photonics Corporation's Motion to Stay the Litigation Pending Reexamination - Plaintiff IMRA America, Inc.'s Responses to Defendant IPG Photonics Corporation's First Set of Interrogatories (Nos. 1-13)	12/21/2007
	4	Exhibit 3 to Defendant IPG Photonics Corporation's Motion to Stay the Litigation Pending Reexamination - Plaintiff's First Supplemental Responses to Defendant's Interrogatory Nos. 2, 5, and 6	12/21/2007
	5	Exhibit 5 to Defendant IPG Photonics Corporation's Motion to Stay the Litigation Pending Reexamination - Request for Ex Parte Reexamination Transmittal Form, Request for Ex Parte Reexamination of U.S. Patent No. 5,818,630 Detailed Submission	12/21/2007
	6	Defendant IPG Photonics Corporation's Response to Decision Sua Sponte Vacating Ex Parte Reexamination Filing Date and Replacement Request for Ex Parte Reexamination of U.S. Patent No. 5,818,630	3/12/2008
	7	Defendant IPG Photonics Corporation's Response to Notice of Failure to Comply with Ex Parte Reexamination Request Filing Requirements and Corrected Request for Ex Parte Reexamination of U.S. Patent No. 5,818,630	1/22/2008
	8	Defendant IPG Photonics Corporation's Request for Ex Parte Reexamination of U.S. Patent No. 5,818,630	12/21/2007
	9	Plaintiff IMRA America, Inc.'s Opposition to Defendant's Motion to Stay the Litigation Pending Reexamination	1/4/2008
	10	Exhibit A to Plaintiff IMRA America, Inc.'s Opposition to Defendant's Motion to Stay the Litigation Pending Reexamination - November 21, 2006 LoPresti Letter to Harter (redacted)	1/4/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

NON-PATENT DOCUMENTS			
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	T <sup>5</sup>
	11	Exhibit B to Plaintiff IMRA America, Inc.'s Opposition to Defendant's Motion to Stay the Litigation Pending Reexamination - Defendant IPG Photonics Corporation's Responses to Plaintiff IMRA America, Inc.'s First Set of Interrogatories (Nos. 1-12)	1/4/2008
	12	Exhibit E to Plaintiff IMRA America, Inc.'s Opposition to Defendant's Motion to Stay the Litigation Pending Reexamination - Defendant IPG Photonics Corporation's Supplemental Interrogatory Response to Interrogatory No. 2	1/4/2008
	13	Exhibit E to Plaintiff's Brief in Support of its Motion to Compel Production of Documents and an In-Person Inspection of Defendant's Electronically Stored Documents - Defendant's Responses to Plaintiff's Second Set of Requests for Production of Documents and Things (Nos. 99-182)	2/15/2008
	14	Complaint for Patent Infringement and Exhibit A (U.S. Patent 5,818,630 & Civil Cover Sheet)	11/16/2006
	15	Stipulated Protective Order and Exhibit A (Confidentiality Agreement)	6/20/2007
	16	Signed Stipulated Protective Order and Exhibit A (Confidentiality Agreement)	7/2/2007
	17	IMRA's First Amended Complaint for Patent Infringement and U.S. Patent 5,818,630	12/22/2006
	18	Defendant IPG Photonics Corporation's Answer, Affirmative Defenses, Counterclaims and Jury Demand	1/9/2007
	19	Plaintiff IMRA America, Inc.'s Answer to Counterclaims of Defendant IPG Photonics Corporation	2/1/2007
	20	Plaintiff's First Set of Interrogatories to Defendant (Nos. 1-12)	2/28/2007
	21	Plaintiff's First Set of Requests for Production of Documents and Things to Defendant (Nos. 1-98)	2/28/2007
	22	Defendant IPG Photonics Corporation's First Set of Interrogatories (Nos. 1-13)	3/19/2007
	23	Defendant IPG Photonics Corporation's First Set of Requests for Production of Documents and Things (Nos. 1-84)	3/19/2007
	24	Defendant IPG Photonics Corporation's Responses to Plaintiff IMRA America, Inc.'s First Set of Interrogatories (Nos. 1-12)	3/30/2007
	25	Defendant's Responses to Plaintiff's First Set of Requests for Production of Documents and Things (Nos. 1-98)	3/30/2007
	26	Plaintiff IMRA America, Inc.'s Responses to Defendant IPG Photonics Corporation's First Set of Interrogatories (Nos. 1-13)	4/18/2007
	27	Plaintiff IMRA America, Inc.'s Responses to Defendant IPG Photonics Corporation's First Set of Requests for Production of Documents and Things (Nos. 1-84)	4/18/2007
	28	IPG's Subpoena to Lih-Mei Yang	9/27/2007
	29	Defendant's Responses to Plaintiff's Second Set of Requests for Production of Documents and Things (Nos. 99-182)	10/22/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

NON-PATENT DOCUMENTS			
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	T <sup>5</sup>
	30	Defendant IPG Photonics Corporation's Supplemental Interrogatory Response to Interrogatory No. 2	11/16/2007
	31	Plaintiff's First Supplemental Responses to Defendant's Interrogatory Nos. 2, 5 and 6	11/21/2007
	32	Plaintiff's Second Supplemental Response to Defendant's Interrogatory No. 5	12/13/2007
	33	IPG's Subpoena to Almantas Galvanauskas	12/14/2007
	34	Defendants IPG Photonics Corporation's Second Set of Requests for Production of Documents and Things (Nos. 85-88)	12/19/2007
	35	Expert Report of Martin J Adelman with Exhibits A-C	12/21/2007
	36	IPG's Notice of Deposition and Subpoena to Richard Turner	12/27/2007
	37	IPG's Subpoena to Sughrue Mion, PLLC	12/27/2007
	38	Defendant IPG Photonics Corporation's Supplemental Interrogatory Responses to Interrogatory Nos. 2, 4, 5, 7 and 9	12/27/2007
	39	Plaintiff's 30(b)(6) Notice of Deposition of IPG Photonics Corporation Regarding Liability with Exhibit A	12/28/2007
	40	Defendant IPG Photonics Corporation's Second Set of Interrogatories (Nos. 14-20)	1/14/2008
	41	Defendant IPG Photonics Corporation's Third Set of Requests for Production of Documents and Things (No. 89)	1/14/2008
	42	Plaintiff IMRA America, Inc.'s Second Set of Interrogatories to Defendant IPG Photonics Corporation (Nos. 13-18)	1/16/2008
	43	Plaintiff IMRA America, Inc.'s Third Set of Requests for Production of Documents and Things to Defendant IPG Photonics Corporation (Nos. 183-241)	1/16/2008
	44	Plaintiff's Response to Defendant's Second Set of Requests for Production of Documents and Things (Nos. 85-88)	1/18/2008
	45	IPG's Subpoena to MIT	1/18/2008
	46	Rebuttal Expert Report of Hon. Lawrence J. Goffney, Jr. with Appendices A & B	1/27/2008
	47	Defendant IPG Photonics Corporation's Responses to Plaintiff IMRA America, Inc.'s Second Set of Interrogatories (Nos. 13-18)	2/15/2008
	48	Defendant IPG Photonics Corporation's Responses to Plaintiff's Third Set of Requests for Production of Documents and Things (Nos. 183-240)	2/15/2008
	49	Lih-Meh Yang Deposition Transcript (condensed) (some deposition exhibits listed separately below)	2/14/2008
	50	Peter Kaiser and Donald Keck, excerpt from Optical Fiber Communications II, Academic Press, 1988 (YANG000004 - YANG000006, exhibit 6)	1988
	51	Zenteno, et al., Frequency-modulated cavity-dumped Nd-doped fiber laser, Optics Letters, Vol. 16, No. 5, Mar. 1, 1991, pp. 315-317. (YANG000017 - YANG000019, exhibit 8)	3/1/1991

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

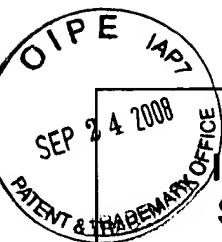
NON-PATENT DOCUMENTS			
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	T <sup>5</sup>
	52	Yang, L.-M., et al., Upconversion Multimode Fiber Amplifier, Ultrafast Pulse, Vol. II, No. 2, Spring, 1995, pp 1-2. (YANG000021 - YANG000022, 1 <sup>st</sup> part of exhibit 9)	Spring 1995
	53	Yang, L.-M., et al., Upconversion chirped pulse amplification of ultrashort pulses using a multimode Tm:ZBLAN fiber, SPIE, Vol. 2377, pp 148-156. (YANG000024 - YANG000032, 2 <sup>nd</sup> part of exhibit 9)	02/1995
	54	Yang, L.-M., et al., Upconversion chirped pulse amplification in a multimode TM:ZBLAN fiber and temporally resolved modal analysis, CLEO'95, Monday morning, (YANG000033 - YANG000034, 3 <sup>rd</sup> part of exhibit 9)	1995
	55	Yang, L., Generation and Amplification of Ultrashort Pulses in Erbium, Neodymium, and Thulium Fibers, dissertation, University of Michigan, 1996. (YANG000036 - YANG000184, exhibit 2)	1996
	56	Stock, et al., Synchronous mode locking using pump-induced phase modulation, Optics Letters, Vol. 18, No. 18, Sept. 15, 1993, pp. 1529-1530. (YANG000186 - YANG000188, exhibit 13)	9/15/1993
	57	Fermann, et al., Environmentally stable Kerr-type mode-locked erbium fiber laser producing 360-fs pulses, Optics Letters, Vol. 19, No. 1, Jan. 1, 1994, pp 43-45. (YANG000190 - YANG000192, exhibit 11)	1/1/1994
	58	Yang, et al., Chirped-Pulse Amplification of Ultrashort Pulses Using Neodymium- and Erbium-Doped Fiber Amplifiers, Springer Series In Chemical Physics, Vol. 60, 1994, pp. 187-189. (YANG000194 - YANG000196, exhibit 12)	1994
	59	Declaration of Emily Florio in support of ex parte request for reexamination of U.S. Patent No. 5,818,630	3/12/2008

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

5957126

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.



# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	09/785944
Confirmation Number	7227
Filing Date	February 16, 2001
First Named Inventor	FERMANN, Martin E.
Art Unit	2828
Examiner Name	Hrayr Sayadian
Attorney Docket Number	IMRAA.015C1-72C

## **U.S. PATENTS**

Examiner Initials*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US3308394		3/7/67	Snitzer	
	2	US3355674		11/28/67	Hardy	
	3	US3687514		8/29/72	Miller	
	4	US3761716		9/25/73	Kapron	
	5	US3777149		12/4/73	Marcatili	
	6	US3826992		7/30/74	Friedl	
	7	US4050782		9/27/77	Uchida	
	8	US4120587		10/17/78	Vali	
	9	US4204745		5/27/80	Sakai	
	10	US4260221		4/7/81	Marcuse	
	11	US4504111		3/12/85	Hunzinger	
	12	US4723828		2/9/88	Garel-Jones	
	13	US4782491		11/1/88	Snitzer	
	14	US4817205		3/28/89	Asawa	
	15	US4944591		7/31/90	McMichael	
	16	US4955014		9/4/90	Kuppers	
	17	US5077483		12/31/91	Cloonan	
	18	US5077815		12/31/91	Yoshizawa	
	29	US5388120		2/7/95	Ackley	
	24	US5511083		4/23/96	D'Amato	
	26	US5546415		8/13/96	Delfyett	
	27	US5659644		8/19/97	DiGiovanni	
	29	US5854865		12/29/98	Goldberg	
	30	US5887009		3/23/99	Mandella	
	34	US5974060		10/26/99	Byren	
	35	US5993899		11/30/99	Robin	
	36	US6031849		2/29/00	Ball	
	40	US6141143		10/31/00	Marshall	
	41	US6144484		11/7/00	Marshall	
	44	US6212216		4/3/01	Pillai	
	46	US6301271		10/9/01	Sanders	
	47	US6303041		10/15/01	Laming	
	48	US6304352		10/16/01	Cunningham	
	49	US6356680		3/12/02	Kirk	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

U.S. PATENTS						
Examiner Initials*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	50	US6434311		8/13/02	Danziger	
	58	US6956887		10/18/05	Jiang	
	60	US4780877		10/25/88	Snitzer	
	19	US5381431	A	1/10/95	Zayhowski	
	21	US5416862	A	5/16/95	Haas	
	22	US5488619	A	1/30/96	Injeyan	
	23	US5508845	A	4/16/96	Frisken	
	25	US5539571	A	7/23/96	Welch	
	28	US5828802	A	10/27/98	Stolen	
	31	US5923684	A	7/13/99	DiGiovanni	
	32	US5953353	A	9/14/99	Headley	
	33	US5966491	A	10/12/99	DiGiovanni	
	37	US6044188	A	3/28/00	Kropp	
	38	US6064786	A	5/16/00	Cunningham	
	39	US6097741	A	8/1/00	Lin	
	42	US6157763	A	12/5/00	Grubb	
	43	US6185346	B1	2/6/01	Asawa	
	45	US6295161	B1	9/25/01	Bazzocchi	
	51	US6415076	B1	7/2/02	DeCusatis	
	52	US6427491	B1	8/6/02	Burke	
	53	US6434311	B1	8/13/02	Danziger	
	54	US6501884	B1	12/31/02	Golowich	
	55	US6510265	B1	1/21/03	Giaretta	
	56	US6567583	B2	5/20/03	Mettler	
	57	US6751388	B2	6/15/04	Siegman	
	59	US7212745	B2	5/1/07	Numata	
	60	US2005/0008044	A1	1/13/2005	Fermann	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	DE2844129	DE	A1	4/24/80	Schiffner		
	2	EP0569174	EP	B1	7/31/96	DiGiovanni		
	3	FR2441858	FR		6/13/80	Boniort		✓
	4	JP62-54986	JP		3/10/87	Shioda		
	5	JP4253003	JP		9/8/92	Cohen		
	6	JP61065208	JP		4/3/86	Atsushi		
	7	JP63034521	JP		2/15/88	Tajima Kazoto		
	8	JP08018137	JP		1/19/96	Oishi		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	9	WO9315536	WO		8/5/93	AMOCO		

### NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	T <sup>5</sup>
	1	ALCOCK et al., Q-switched Operation of a neodymium-doped monomode fibre laser, L. P. Alcock; A. C. Tropper; A. I. Ferguson; D. C. Hanna, ELECTRONICS LETTERS, Vol. 22 Is. 2 pg. 84-85 (Jan 1986)	
	2	ARBORE et al. "Frequency doubling of femtosecond erbium-fiber soliton lasers in periodically poled lithium niobate, Optics Letters, vol. 22, No. 1, Jan. 1, 1997, pp. 13-15. (3 pages)	
	3	DIGONNET ET AL., Nd: YAG single crystal fiber lasers, M. J. F. Digonnet; H. J. Shaw, SECOND EUROPEAN CONFERENCE ON INTEGRATED OPTICS (Oct 1983)	
	4	FERMANN et al. "Ultra-wide tunable Er soliton fiber laser amplified in Yb-doped fiber", M. E. Fermann, A. Galvanauskas, M. L. Stock, K. K. Wong, D. Harter, L. Goldberg, Optics Letters Vol 24, No. 20 p1428-30, Oct. 1999	
	5	IMASAKA, T., Optical Chromatography. A new tool for separation of particles, T. IMASAKA Analisis Magazine 1998, 26, No 5 p M53	
	6	KOPLow et al. "Single-mode operation of a coiled multimode fiber amplifier, Koplów et al. Optics letter vol 25, p 442- April 2000	
	7	MORKEL et al. "Theoretical modeling of erbium-doped fiber amplifiers with excited-state absorption, P. Morkel, Optics Letters, Vol.14, Is.19, pp.1062-1064 Oct. 1989	
	8	NELSON et al. "Efficient frequency doubling of a femtosecond fiber laser, L. Nelson, Optics Letters, Vol.21, Is.21, pp.1759-1761 (November 1, 1996)	
	9	NILSSON et al., Modeling and optimization of low-repetition-rate high-energy pulse amplification in cw-pumped erbium-doped fiber amplifiers, J. Nilsson; B. Jaskorzynska, OPTICS LETTERS, Vol. 18 Is. 24 pg.2099-2101 (Dec 1993)	
	10	OBER et al., Widely tunable femtosecond neodymium fiber laser, M.H. OBER et al., Optics Letters Vol 20, No 22 Nov 15 1995, p 2303	
	11	RICHARDSON ET. AL., Fiber laser systems shine brightly, Richardson, D; Minelly, J; Hanna, D, LASER FOCUS WORLD Vol 33 Is 9 p 87 SEP (1997)	
	12	RIPIN et al. "High efficiency side-pumping of light into Optical fibers using imbedded V-Groves, by Ripin and goldberg, Elect. Let, Vol 31, p 2204-2205 Dec. 1995	
	13	ROSS et al., Optical amplification of 1.06-u InAs.....Injection-laser emission, B. Ross; E. Snitzer, IEEE QE, Vol. QE-6 Is. 6 pg. 361-366 ( Jun 1970)	
	14	SENIOR, J. "Optical Fiber Communications: Principles and Practices, Prentice/Hall International pp. 41-42, 73-76, 138-144 (1985)	
	15	SIEGMAN, A.E. "Defining, measuring, and optimizing laser beam quality, A. E. Siegman, SPIE, Vol. 1868, January 1993	
	16	SNITZER ET AL., Proposed fiber cavities for optical masers, E. Snitzer, JOAP, Vol. 32 Is. 1 pg. 36-39 (Jan 1961)	
	17	SOUSA et al. "Multimode Er-doped fiber for single-transverse-mode amplification, J.M Sousa, O. G. Okhotnikov, Applied Physics Letters Vol 74, No. 11, p 1528-30 March 1999	
	18	SPIELMANN et al. "Ultrabroadband femtosecond lasers, C. Spielman, IEEE J. Quantum Elec. Vol.30, Is.1100, April (1994)	
	19	STONE et al., Neodymium-doped silica lasers in end-pumped fiber geometry, J. Stone; C. A. Burrus, APPLIED PHYSICS LETTERS, Vol. 23 Is. 7 pg. 388-389 (Oct 1973)	
	20	TAJIMA et al. "Er3+-Doped single-polarisation optical fibres, K. Jajima, ELECTRONIC LETTERS, Vol.26, Is.18, pp.1498-1499 (August 30, 1990)	
	21	YAMADA et al. "First-order quasi-phase matched LiNbO3 waveguide periodically poled by applying an external field for efficient blue second-harmonic generation, Appl. Phys. Lett, vol. 62, p. 436, Feb. 1993	
	22	FERMANN, et al., File history of U.S. Patent Application 08/882,349, filed June 25, 1997, issued as US Patent 5,818,630 on October 6, 1998 (IMRA Docket No. IM-59)	
	23	FERMANN, et al., File History of U.S. Patent Application 09/809,248, filed March 16, 2001, issued as US Patent 6,954,575 on October 11, 2005 (IMRA Docket No. IM-89)	
	24	FERMANN, et al., File History of U.S. Patent Application 10/850,509, filed May 20, 2004, now abandoned (IMRA Docket No. IM-97C)	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3).

3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

5936586

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. 2 Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). 3 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 4 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 5 Applicant is to place a check mark here if English language translation is attached.